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NOTEBOOK NO. A-302

Assigned to: Z. Blaser
Department: Operations
Location: 3037
Date: 10-1-51

*PARTIAL
COPY*

This document has been approved for release
to the public by:

David R. Hawkin 7/21/95
Technical Information Officer
ORNL Site

- (4) Finished ~~wash~~ filling 5 can and took to Pile Bldg.
- (5) Continued Evaporating.
- (6) Cottrell Precipitator still running at 60 K.V. Hasit kicked out all shift.
- (7) Hartford slug loader is on $1\frac{1}{2}$ Ton truck at "D" Bldg.
- (8) Cell A tanks empty -
- (9) Cleaned up hot spill in 3032 Bldg.

1-12-52 12-8

1-12-52 1. Delivered SLUG CHARGER TO THE PILE BUILDING.
 2. HAD ELECTRICKEN TO REPLACE BLOWN FUSE FOR P.B.#1
 R.L.N. INSTRUMENTS.
 3. ADDED FIRST PART OF COATING REMOVAL SOLN. TO A-1

1-12-52 ① Evaporator operating at 45# steam + 35" L.L. This shift
 4-12 the load on the condensers shifted a lot and
 Blood regulation of H₂O was difficult.

② Started loading slugs at "D" Bldg. On the 2nd + 7th
 load, the 9th slug that dropped fell cross-wise in
 the slug ~~shoot~~ chute. Had to lift the charger
 and poke them into the chute. On the 2nd load
 the charger basket was bent on closing the
 charger slide when the carrier had to be lifted,
 or it was bent by some other slug that stuck
 to the slide. Could only load 14 slugs into A-1
 on the 3rd load - one stuck in the basket - (the Pile
 operator could only load 15 this time.) Before
 loading the 4th load the slug basket was bent into
 shape so that 15 slugs could be loaded each time.

On the 7th load, the 9th slug dropped cross-wise in the chute - poked it in. At shift change the last load of slugs should be ready to unload into A-1. This load will have 10 or 11 slugs depending on how many they can find in the Canal. They have been instructed to be sure & hold out 2 slugs for I¹³¹ regardless of whether we are short one slug.

- 1/13/52
- ① Loaded last batch of slugs (10) for a total of 176.
 - 12-8 Didn't sound like they were hitting crash plate.
 - Schoich ② Lost offgas on A-1 for approx. 5 min. when 1st coating removal hit 100°C. Had to turn on jacket H₂O to get it back. lost 72 pounds of solution.
 - ③ 3rd level hoist has to be stopped with Up button or she'll go right thru the floor with charging machine on it.
 - ④ No Time cards.
 - ⑤ Pipe Bldg. had a ruptured slug. D.B. going up.
 - ⑥ Made up 4% caustic in M10.
 - ⑦ Cleaned and stored charging machine handles. Cleaned charging machine inside & out. It is 3026 Dec. room due to lack of space in 903 Bldg. Removed basket from charging machine, cleaned to \sim 1m² and smeared. Re-cleaned and resmeared. still hot.
 - ⑧ Continued evaporating.

1/13/51

- 8-4 Sachs ① Continued Evaporating. Cut back to 200 gal/hr when kala dissolving got underway. Having a hell at a time getting condenser and exit water temperature where they should be.

- ② Brought slug changer to 903 Bldg.
- ③ The hottest place at Cottrell are the electrode pipes which are reading about 350 $\mu\text{r/hr}$ at 3:30 p.m.
- ④ Had to cut back Cottrell voltage to 57 k.v.
- ⑤ Still no time boole and no one answers the phone at the time office.
- ⑥ Dumped Acids.
- ⑦ Nothing unusual was encountered in slug dissolving.
- ⑧ Bean Status:
A1 - Batch A dissolving coming up to gravitating.
- ⑨ Slug basket ready for rescreening. Cleaned it up once but it was still too hot.

- 1-13-52
- ① Evaporator operating at 200 gals/hr. - At this low rate of evaporation the condensate temperatures on the condensers are very difficult to regulate and the exit cooling H₂O gets up to about 95° when condensate temperatures are at 50° ± 10°. Mr. Blauer wishes the exit cooling H₂O to be about 70°, and at this temperature the condensate temperatures run about 20-30°. The 3/4" globe valve seems to be best to regulate the condenser flow.
 - ② Washed down the Cottrell ppt. between dissolvings. Before sparging A-1 soln., radiation at the tube section was 200-300 mr/hr. After sparging A-1, radiation was 1-2 R/hr. After washing down 200-300 mr/hr. - operating at 59 KV.
 - ③ Decontaminated the slug basket again & H.P. was to have smeared it. Please check.

④. Rala #46 status:

A-1 - 2nd dissolving will be about finished at shift change.

A-9 - 1st extraction filtering to A-8.

A-8 - 8WMA.

CF #1 - Back washed

PF #2 - Still filtering at shift change.

A-5 - Batch of Na_2CO_3 to receive metal waste.

M-10 - 4% NaOH. - Made up another batch for 2nd dissolving.

⑤. Lab. reports about 10,000 Curies - 1MA.

This sample read 300-400 mr/hr thru the carrier and 8.5 R/hr. at 2 ft over the top.

⑥. P.F. beginning # to show some shine.

18 mr/hr.

⑦ Pile thinks there is 1 slug in Phoenix carrier

1/14/52 ① Spilled part of 1MB sample on floor. Cleared up 12-8 all but one spot reading $\frac{20}{25}$ mr/hr. H.P. smeared. Floor OK.

Schurich ② Washed down Cottrell after 1MB dissolving. Drained pots and dumped acids. Made up 4% NaOH

③ Continued evaporating.

④ Brought one Hanford slug to FI coll and loaded into dissolver. Brought Pile Units to 3038.

⑤ Recleaned and resmeared slug basket. It is in H.P. office. It is O.K. but not green tagged.

⑥ Could not jet 8WMA to A5 without having back pressure while 1MC was dissolving. Jetted A8-A11-A6. (There is a heel in A11. Jetted to A5)

- ⑦ Time office charged overtime to 3632 + 3634. 1?
- ⑧ 1MA - 45.1 slugs - 8061 cfs S.T.
1MB - 45.6 " - 7473 cfs S.T.
8WMA - 5-25 cfs Lab having troubles.
- ⑨ Run status: A1 - 1MC dissolving
A9 - 8WMB Filtering to A8
A8 - 8WMB
A11 - MT
A5 - Na₂CO₃ jetting to A6
A6 - 8WMA being neutralized
A17 - MT
CF#1 - Clean
M-10 - 22" 4% NaOH

1/14/52

- 8-4 ① Continued Evaporating.
- Soaks ② Washed down Cottrell prior to starting batch D dissolving. Electrode pipes were reading 8R. Cleaned down to ~~8~~. 1500 ml/hr.
- ③ Butted down pH of 0.5 M Na Citrate to 3.53. pH of .2 M Na Citrate is 9.0 and O.K. Jugs are labeled.
- ④ Made up 80' of 4% NaOH for Batch D dissolving.
- ⑤ Dumped Acids.
- ⑥ Pipes servicing A13 Pipette manometer are reading 550 ml/hr behind the panel board.
- ⑦ Had a bad spill at the W9 jet pit when disposing of 6WMA to W9. Somehow, hot solution was blown out of $\frac{1}{4}$ " vent line, when steam valve to jet was closed and vent open. A few spots read up to 80R/hr.

7 cont. A Bradell removed hot dirt, but the valves and lines are still very hot.

(1) Maintenance repaired 2nd level hoist in 3026 Bldg.
Greasy brake drums were causing the trouble.

(2) Dropped Cottrell Voltage to 50 K.V.
Started Blanco's Resin Titration Run. Resin added.

Run Status:

A1 - Batch D dissolving

A9 - Batch C, cooling to 55°C prior to Process Filtration

A16 - M.T.

A15 - M.T.

A17 - M.T.

A18 - M.T.

C.F. 1 - Clean

1-14-52 (1) Evaporator operating at 200 gal/hr. Regulating blood exit cooling H₂O fairly well.

(2) Completed Blanco's Resin Col. Titration & sampled.— reads 58 mrs/hr. thru the bottle.

Started 10 L NaNO₃ - 3M. - thru col. for regeneration
- this flowing thru at shift change.

(3) Run Status:

A8 = 8WMC - 39 Curves. OK to dump by H.B.

A5 = Batch of NaClO

A1 = 1ME batch dissolving just started.

A-11 = 1MD filtering thru C.F. 1 to A17

A-17 = from C.F. - 1.

P.F. 2 = Extraction cake.

- ④ Washed down the Cottrell ppt. - 4.9 R/hr to 1.9 R/hr. - Operating at 42 K.V.
- ⑤ I¹³¹ dissolving - Checked & recorded data.
- ⑥ Cleaned up contaminated floor in front of the decontamination room - "D Bldg."

1-15-52 ① Raised cottrell up to 55 k.v.

Schaeich ② Checked FI dissolving

on 12-8 ③ Brought sulfur can down to 3032 Bldg.

④ Dumped acids

⑤ Cleaned 3 sample carriers.

⑥ Finished resin regeneration in RC 200

⑦ IMD - 6023 c's S.T.

8WMC - 39.6 c's S.T.

⑧ Continued evaporating.

⑨ Run Status

A1 - Batch E dissolving

A8 - 8WMD sampled

A9, A5, A6, A11, A17 - M.T.

P.F. 2 - product

C.F. 1 - clean

150 - 3M HVO₃ from resin titration

MW - Regeneration waste

⑩ P.F. 2 is filtering very slow.

⑪ Micromax Temperature recorder for Iodine cell is reading 80° during dissolving. Instrument man checked recorder and ok. Can't get the temperature any higher.

1/15/52

8-4 ① P.L.C. is putting their deep-pit because of a
Seeds slug rupture.

② Run Status:

P.F. 2 - Product coke.

A1 - M.T.

A6 - M.T.

A5 - M.T.

A11 - Batch E filtering to A17

A9 - M.T.

A17 - Receiving Batch E from C.F. -1.

③ Made up 3.0 M HNO₃, sample in lab.

④ Washed down Cottrell. 5500 ml → 1500 ml

⑤ Al sampler plugged when trying to get IME sample. Finally had to open it up with steam.

⑥ Continued evaporating.

⑦ Will run steam turbines tomorrow.

1-15-52 ① Evaporator operating at 200 gal/hr.

4-12 ② I⁽¹³⁾ :- A11 crude in Run. 10. - some to boil down. 1

Blood Had trouble obtaining another. Hand hard slug - don't know if it is the right one or not!!

Anyway they sent a slug down in the I⁽¹³⁾ carrier, and it has been loaded. Sampled Scrubber. Washed & steam sparged the dissolver twice.

③ Checked R.C. F.T. #200 for flow thru the closed F.T. valve to column. Flow is ~~negligible~~ nil. In 8 hrs. practically none at all.

④ Run Status :-

A8 - jetting to A-11. - 8 WME. - (Sampled)

A8 - not washed out. in preparation
for metathesis.

A9 - 1st metathesis started.

⑤ Decontaminated #8 A Cell sample carriers,
still cooking in Dec. Rm.

⑥ Check W-12 pit for leak at jet -
no leak!

⑦ Decontaminated "D" Bldg. Dec. Rm.

⑧ Broke a cone at A8 sample blister.

In removing piece a speck of something
was found on the floor. Cleaned this
spot. At shift change, don't know if there
is any more around. Please check.

⑨ Lab results 3M HNO₃ = 2.86 ; buffered up &
re-sampled.

11/16/52 ① Cleaned up hot floor in front of A8 sampler.

12-8 H.P. smeared. J.K.

Schaeck ② Continued decontamination of sample carriers.

Lampton ③ Pulled two P³² extracts and started re-
extractions. Boiling down crude at shift change.

④ Greased and repaired stop cock on Can #1 -
waste tank in P³² hood. Crude evaporator filter
should be replaced. We ran out of exposure time

⑤ Finished boiling down crude FI but it ended
up as a solid. Diluted and left in crude evap.
for your disposal.

- ⑥ Continued evaporating.
- ⑦ 8WME - 22.3 cu. ft. S.T.
- ⑧ Sample carriers cleaned & stored. Brought equipment for R.C. 200 to 1st & 2nd level.
- ⑨ 3M HNO₃ - 2.98 M
- ⑩ Run status: A1, A6, A17, A11 - NOT
A8 - 8WME not sampled.
PF-2 ~~not~~ & A9 - Product
A5 - 8WME Neut.

1/16/52

- 8-4 ① Continued Evaporating
Sacks ② Run both Turbines for 6 hrs.
③ Run Status:
0.7 m Versene elution running through column
to H tank.
- ④ M.W. tank - Versene feed effluent ready for sampling.
 - ⑤ Impinger or both feed solutions from A9 to R.C. 200 went without a hitch except the mixes were settling slow in coming down.
 - ⑥ pH of Versene feed was 6.15 prior to going on column.

- 1-16-52 ① Evaporator operating at 200 gal/hr.
- 4-12 ② Washed down Castrell ppt. for 25 min. - Did not reduce radiation much (7R to 5R/hr.)
- ③ Run Status:
A9 - A9 Rinse + MW VFE and rinse + backwash of P.F. #2 + 1 male NaOH to make it basic.

Continued —

A9 = sampled #1 before addition of 1M NaOH;
 Sampled #2 after " " " "
 $\text{pH} = 10$. - Ready to concentrate to 14 liters.

RC-150 = IT NaVE.

MW = MW HCl E

H = Product in 9M HNO_3 from Col.

Eluate T = 9M HNO_3 — (used at about sh. st
 change 2 Liters H_2O thru Col.
 to H.E.T. after H.E.T. is MT to P.E.)

P.E. = Contains concentrated product from
 2 transfers to P.E.

F.T. = F.T. Rinse + 1 liter 25M Na Vore
 - sampled

- ④ Cleared up Dec. Rin & Carriers.
- ⑤ I¹³¹: checked dissolving & recorded data.
 The Temp. suddenly dropped from $100^\circ \rightarrow 82^\circ$.
 — Cracked the dissolver jacket, ^{steam} by-pass valve
 & temp. came up.
- ⑥ Continued boiling down P^{32} Crude.

1/17/42 ① 8-4 - Check W. vacuum pump.

12-8 ② Lowered off gas on EI dissolving & closed by-
 seacock pass valve. Temp. rose to 94°C .

- ③ Delivered approximately 1 ml of PE #1 to
 shipping barricade. Carrier is hot.
- ④ Taped W. W. & IT NaVE, + M.W. HCl E to W/6.
- ⑤ Ed Wyatt diluted part of PE-1 in 100 ml flask
 and took in barricade in hot lab. ifotope shipping wants it.
- ⑥ Added 1 liter of H_2O to ^{FI} scrubber at 3:50 AM

- ⑦ Reached L.S.T. at 6:00 AM 1/17/52.
- ⑧ Checked F3 dissolving.
- ⑨ Finished crude per cent boil down and started thru glassware, going S-2 → E-1.
- ⑩ Run status:

CH-II - Cone - Prod. drying

M.W. - M.W.FN

AC - New. COME

F.T. - F.T. Finish

A9 - S_r run boiled 100.
14 liters

Hold →

All other tanks MT

P.E. - P.E. Rinse Sampled

1/17/52

- 8-4
- ① Continued Evaporation.
 - Sacks. ② The S.B. sampler is not functioning properly. It occasionally makes two turns, giving us too much sample.

③ Analysis:

P.E 1 - 28,619 C's

MWFN - 128 :: Skipped ~~27~~ 27,933 C's Total

P.E. Rinse - 558 :: as of 0600 1-17-52

A9 Rinse - 1163 ::

- ④ Started Blanco's Resin hold-up procedure. Status verbally to the 4-12.

- ⑤ Put 65lb mixes through P.F. 1 and P.F. 2 to A9. Resampled A9 mix. Essentially the same as the 6am sample. Boiled down again to fourteen liters. Run for necessary Run.

(6) Product dried at 2:35 p.m. Had a reddish-brown tinge to it. Read 7.5 on the 2 scale. 1st chamber, 2nd chamber 26 meter counts $\times 64 = 1664$ counts
 " light counts = 11
 1675 total
 $1675 \text{ total counts} \div 2 \text{ min count} = 838 \text{ counts/minute.}$

- 1-17-52 (1) Evaporator operating at 200 gal/hr.
 4-12 (2) Took up P^{32} product & sampled.
 Blood (3) I¹³¹ Finished 2nd still; Continued to boil down crude still until shift change. Ready to transfer to the flask after cooling. There will be 3 scrubber stills; the third still is ready to turn the steam on. P.B. Orr. wishes these scrubber stills checked carefully for pH (basic). The 2nd still was basic.
 (4) Finished loading the Rala product on the truck. Connected up the H₂O cooling system; H₂O is now flowing thru the coils at 30 ml/min. Used a vacuum flask to start H₂O thru the coil; then it continued to flow. The H₂O tank maybe filled in the morning, so left the hose in the tank.
 (5) Cleaned up 1st level "D" Bldg - appears to be in good shape. Had 3 "hot" smears; two near the loading cubicle and another at the make-up room entrance. General background over R.C. #200 now about 10 m/r/hr at 2 ft.; 300-500 m/r/hr at sample carrier slide.

now on they will put and such of caustic in their tank to neutralize it before dumping.

3-3-52 ① Evaporator operating at 35'L.L. + 50# steam.

8-4 ② The Make-up tank at W-1 + W-2 is plugged.

B100d ③ I¹³¹ : - dissolving in progress.

④ "D" Bldg. status:

A-1 - First part of coating removal.

M10 - 4% NaOH soln.

T-9 - Coating removal.

R.C. #200 - Resin addition completed.

Did not start loading slugs because the Crane 205 Bldg. was broke down.

⑤ Bottled down the .07 M Vers. - need pH analysis.

⑥ Started 12" over from W10 → W-7 ; - W-7 pump is circulating slurry.

⑦ Maint. repaired a steam leak in the main line so that we would have steam enough to jet.

⑧ H₂SO₄ pump in the make-up Rm. "D" Bldg. was repaired and put into service.

3/3/52 ① .07 M Na Vers - .0713 M - O.K. 6.47 PH.

4-12 ② Finished jetting W10-W7. Steam out line Schenck Pump recirculating.

③ Maintenance opened Na₂CO₃ line to W1 + W2.

④ Spent 2 hours looking for ~~the~~ charging machine cranks. 205 finally located in a storage attic. Loaded 65 x slugs. Starting dissolving at shift change.

- 3/
- ⑤ Checked FI dissolving.
 - ⑥ Charged solutions on offgas valve in Dec. room. 12
 - ⑦ Started cleaning Rata sample carriers. Verbal.. La
to 12-8. All O.K. & stored.
 - ⑧ Cleaned charging machines and returned
to ~~Dev~~ truck. Did not get time to return
to 205 Bldg.
 - ⑨ Cottrell kicked out. Lowered voltage to 39 KV.
 - ⑩ W17 tank gained 1000 gals in 2 hrs. Check
C Bldg from top to bottom but found nothing.
12-8 please check. Jetted tank empty at 11 PM.
 - ⑪ K. Campbell & Strick entered West door ^{3037 bldg}, checked
shoes, found they were hot, removed at counting
machine, went in locker room, changed to civilian
shoes, returned to counter and found civilian
shoes hotter than yellow shoes. Shift scrubbed
1st floor of 3037 Bldg but H.P. has not smeared.
H.P. could not find activity on 2nd floor but it
should be smeared. Was able to clean up all hot
shoes except janitors which were contaminated
on top. Inside of Development truck is hot.
Have Rimshaw and company check shoes
tomorrow.
 - ⑫ Continued evaporating.
 - ⑬ Made a check of storage pot, crude evap., and drain
in Rm 10 and every thing is O.K.
- 3-

3/9/52 (1) Checked I¹³¹ dissolving and recorded data.

com. 12-8 (2) Brought one sulfur can to # 303L

bal. Lampton (3) Returned charging machines to 205 Bldg.

(4) Had H.P. smear 1st and second floor of
Bldg 3037 - all smears are less than 50 counts.
Found three hot spots but they did not
smear.

(5) Washed down the coHrell precipitator. Operating
at 90 kW.

(6) Evaporator operating at 50# and 35" L.L.

(7) Hot pilot plant borrowed the big truck when
their truck broke down. At shift change
they had not return it but said they
would if it is needed.

(8) Run Status

Dissolving is continuing.

3-4-52 (1) Evaporator operating at 35" L.L. & 50#.

8-4 (2) Pumped W7 → W-10.

Blood (3) Jetted Wc-4 to W-9 - Cut off the jet when
it blew steam. Valves west of "C" Bldg. will
need to be re-set.

(4) Chemical waste will now go to W-18; & W-17
is cut off.

(5) Dummy Run Status.

A-9 - 1st extraction in progress, H₂SOF
being added.

M-1 - batch of Na₂CO₃

CF #1 - not backwashed.

- ⑥ The lagoon measures 9 turns + 2.1
- ⑦ Checked the vacuum at the wet & dry bulb therm-ohm -(hot-off-gas system) = 42" vacuum

3/4/52 ① Ladders to 3rd level stills should be checked.
 4-12 Top board pulled off while Phillips was climbing
 scaffolding up. No damage done but it could have been serious.

- ② Finished scrubber stills and sampled F-1.
- ③ Changed solution on head and valve in Dec. room. Valve reading 200 ms. Head in the R's.
- ④ Opened 35 1lb bottles of fuming HNO₃. Broke the top off of one bottle. It is in lead pan.
- ⑤ The above, we accomplished. From here on in, we loss ground.
- ⑥ Filtered extraction all shift. PF-2 plugged completely about 8 times. Blew out with air each time and finally got it thru. Water washes going thru at shift change.
- ⑦ Started new run at EV but the 2nd EFT had a pH of 1. Had to shut down, draining EFT and jetting 1" from W8-W5 at shift change.
- ⑧ Checked Iso sampler - No good.
- ⑨ IMA - 57.9 slugs - 215 c/s S.T.

3/5/52 (1) Just before shift change evaporator stream 12-8 coil return developed a small leak.
 Lampton (2) Had maintenance replace light bulbs, ballast D.N.D.
 (3) Took up two 13th extraction a sample. Built up down at shift change.

- (4) The Brown Recorder at Bldg 3032 stripped a gear and instrument man said day shift would have to repair it.
- (5) Checked Pressly's columns.
- (6) Sparged and sampled 0.25 M Na Versene
- (7) 8WMA - 0.69 C's S.T.
8WC - 0.95 C's S.T.
- (8) Run status - 3rd Methesis. running family HNO₃ in A9.
1st Meto. - Neutralized and in A5
2nd Meto - A8

3-5-52 ① Evaporator operating at 35°L.L. & 50°.

8-4 ② Maint. repaired a leak at W-12 pit. Washed Blood down W-12 pit.

③ Maint. repaired 3rd level ladders.

④ Maint. will repair roofing on E. shed - "D" Bldg.

⑤ Started jetted 12" from W-10 → W-7. W-7 pump circulating slurry in W-7.

⑥ Maint. repaired leak in coil "J" at evaporator.

⑦ Jetted the metal waste from A-5 → A-6 → W-9

⑧ Dummy Run #7 Status:

A11 - 8WCW

A8 - MWFE, + MWT. Nastt

A9 - A9 rinse

F.T. - F.T. Rinse

M.W. - M.W. VE. sparging & ready to sample

H - (1200 g Nastt in H₂O) + HCl elution.

Sampled : F.T. Rinse, MWFE, MW Nastt, A-9 rinse, F.T.P., 8WCW

⑨ Lab results: = 8WCW - 10.05 Curies.

3/5/52 ① Jetted 1 fast from W10 to W7 and shut down.
4-12 Recirculating in W7.

- Schaich ② Regenerated S-1. Boiled down crude P32 all shift. Still some to go at shift change. 3
 ③ Checked FI dissolving.
 ④ Checked W12 tank. No large flow coming in.
 ⑤ Continued evaporating.
 ⑥ Brown recorder for P32 and the Micromax for FI needs some new gears.
 ⑦ Continued D.R. #7. Emptied all wastes to W16 except Ag & F.T. Rinses. PE-1 circulating.
 ⑧ M.W. Na Ve - approx. 50 c's AT.
 Ag Rinse - " 55 c's AT.
 F.T. Rinse - " 7 c's AT.

3/6/52 ① Checked FI dissolving

12-8 ② Checked Presslys column

Lampton ③ Evaporating operating 35" L.L. and 50#

④ P³² is in P-1 transfer. Could not get enough vacuum to make transfer. Cleaned HOKO valves but still couldn't get enough vacuum. Probably the small stainless steel lines are plugged we did not clean.

⑤ Rala Kun status Dammy Run 7.

Fuming HNO₃ in P.E. filtering M.W.

PE-1 - approx 20.5 c's ST.

Made a second Ag rinse and sampled.

Ag rinse No 2 - approx 65 c's AT.

In making 2nd A-9 rinse had trouble going through PF-2. Never did get a break in pressure on Blow Tank.

3-6-52 ① Evaporator operating at 35" L.L. + 50#.

8-4 ② Tried flooding W16, W17 + W-18 Dry well to blow discover leak into W-17. - No success yet.

③ Finished ADR #7. - Washed out tanks in R.C. #200. 150 tank, M.W. + HCl have some H₂S in them. A-9 M.T. . A8 contains misc. waste.

T-2 - : 20% NaOH soln - steam is on.
- Agitator on too.

④ Ran the steam turbines 3 hrs.

⑤ Sampled all the dry-wells.

3/6/52 ①	W1-140	W5-21	W10-159
4-12	W2-63	W6-31	W12-1980
Schaich	W3-31	W8-160	W16-107
	W4-19	W9-25	

⑥ Resampled W16 drywell. Results - 2 c/s/min.

⑦ Checked RC-200 samplers. 200B will not sample

F.T or M.W. #200 will sample M.W. but not F.T.

#200-A still gets good sample from F.T.

⑧ Cleaned and stored hot lead from Run 10.

Removed off-gas valve from barrel and worked on it with cleanser. Every thing is <10 mR except body of valve. One end still reads 100 mR.

⑨ Finished R.C. washed Cell A washes.